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(54) Title: SECRETED INSECTICIDAL PROTEIN AND GENE COMPOSITIONS FROM BACILLUS THURINGIENSIS AND USES THEREFOR

(57) Abstract: The present invention relates to the isolation and characterization of nucleotide sequences encoding novel insecticidal proteins secreted into the extracellular space from *Bacillus thuringiensis* and related strains. The proteins are isolated from culture supernatants of *Bacillus thuringiensis* and related strains and display insecticidal activity against lepidopteran insects including European corn borer (ECB), tobacco budworm (TBW) and diamondback moth (DBM). Insecticidal proteins encoded by nucleotide sequences that hybridize under stringent conditions to the isolated and characterized nucleotide sequences are disclosed. Methods are disclosed for making and using transgenic cells and plants comprising the novel nucleotide sequence of the invention.



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